# Project WET
# Connections to KY
# Core Content 4.1

## Old Water p.171

## Elementary

**Mathematics**
MA-EP-2.1.3
Students will choose and use appropriate tools (e.g., thermometer, scales, balances, clock, ruler) for specific measurement tasks**.**

MA-EP-2.1.4
Students will use nonstandard and standard units of measurement to identify measurable attributes of an object (length – in, cm; weight – oz, lb) and make an estimate using appropriate units of measurement.

MA-EP-2.2.3
Students will convert units within the same measurement system including money (dollars, cents), time (minutes, hours, days, weeks, months), weight (ounce, pound) and length (inch, foot).

MA-05-2.2.1
Students will determine elapsed time.
DOK 3

MA-05-4.4.1
Students will determine all possible outcomes of an activity/event with up to 12 possible outcomes.
DOK 2

**Science**
SC-EP-3.5.1
Students will describe fossils as evidence of organisms that lived long ago, some of which may be similar to others that are alive today.

Fossils found in Earth materials provide evidence about organisms that lived long ago and the nature of the environment at that time. Representations of fossils provide the basis for describing and drawing conclusions about the organisms and basic environments represented by them.
DOK 3

# Middle

**Mathematics**

MA-06-2.1.2
Students will estimate measurements in standard units including fractions and decimals.

MA-06-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs, stem-and-leaf plots).
DOK 3

MA-07-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs, stem-and-leaf plots, scatter plots).
DOK3

MA-08-2.1.2
Students will estimate measurements in standard units in real-world and mathematical problems.

MA-08-4.1.1
Students will analyze and make inferences from data displays (drawings, tables/charts, pictographs, bar graphs, circle graphs, line plots, Venn diagrams, line graphs, stem-and-leaf plots, scatter plots, histograms, box-and-whiskers plots).
DOK 3

**Science**

SC-07-3.5.1
Students will:

- describe the usefulness of fossil information to make conclusions about past life forms and environmental conditions;
- explain the cause and effect relationship of the extinction of a species and environmental changes.

Extinction of species is common and occurs when the adaptive characteristics of a species are insufficient to allow its survival. Most of the species that have lived on Earth no longer exist. Fossils provide evidence of how environmental conditions and life have changed.
DOK 3

SC-08-2.3.1
Students will describe various techniques for estimating geological time (radioactive dating, observing rock sequences, comparing fossils).

Techniques used to estimate geological time include using radioactive dating, observing rock sequences and comparing fossils to correlate the rock sequences at various locations. Deductions can be made based on available data and observation of models as to the age of rocks/fossils.
DOK2

## High School

**Science**
SC-HS-2.3.5
Students will understand that the Sun, Earth and the rest of the solar system formed approximately 4.6 billion years ago from a nebular cloud of dust and gas.

SC-HS-2.3.6
Students will:
- compare the limitations/benefits of various techniques ( radioactive dating, observing rock sequences and comparing fossils) for estimating geological time;
- justify deductions about age of geologic features.

Techniques used to estimate geological time include using radioactive dating, observing rock sequences and comparing fossils to correlate the rock sequences at various locations.
DOK 3